



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
[www.uspto.gov](http://www.uspto.gov)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/766,085	01/27/2004	Keith W. Holt	03-2143	2432
24319	7590	10/21/2005		EXAMINER
LSI LOGIC CORPORATION				WACHSMAN, HAL D
1621 BARBER LANE				
MS: D-106			ART UNIT	PAPER NUMBER
MILPITAS, CA 95035				2857

DATE MAILED: 10/21/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

10/766,085

Applicant(s)

HOLT ET AL.

Examiner

Hal D. Wachsman

Art Unit

2857

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) Responsive to communication(s) filed on 12 August 2005.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) Claim(s) 1-20 is/are pending in the application.
  - 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) 1-20 is/are allowed.
- 6) Claim(s) \_\_\_\_\_ is/are rejected.
- 7) Claim(s) \_\_\_\_\_ is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 12 August 2005 is/are: a) accepted or b) objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) All b) Some \* c) None of:
    1. Certified copies of the priority documents have been received.
    2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.

- 4) Interview Summary (PTO-413)

Paper No(s)/Mail Date. \_\_\_\_\_.

- 5) Notice of Informal Patent Application (PTO-152)

- 6) Other: \_\_\_\_\_.

1. This application is in condition for allowance except for the following formal matters:

- a) The Specification Amendments section of the reply filed 6-27-05 contains the amendment "Please correct Figure 1 using the replacement drawing sheet attached hereto." However each section of an amendment document must begin on a separate sheet and thus it is improper to have instructions for a drawing amendment in the specification amendments section of a reply and there was not a separate section for drawing amendments in the reply filed 6-27-05. Appropriate correction is required.
- b) The replacement abstract in the reply filed 6-27-05 is improper under 37 C.F.R. 1.72 because the abstract was not submitted on a separate sheet. Appropriate correction is required.
- c) The specification amendment to rewrite the second full paragraph starting at line 13 of page 7, in the reply filed 6-27-05, is improper under 37 C.F.R. 1.121 because a single brackets and not a double brackets was used to delete the period after the number 402. Appropriate correction is required.
- d) Claims 1-7, 15, 16 and 20 are objected to under 37 C.F.R. 1.75(a) for failing to particularly point out and distinctly claim the subject matter which the applicant regards as the invention. Claim 1, line 7, cites "...exchanging test signals between the first circuit board to the second circuit board" however as "exchanging" indicates that the test signals are going in two directions, from the second circuit board to the first circuit board as well as from the first circuit board to the second circuit board, was this intended to be "...exchanging test signals between the first circuit board **and** the second

circuit board" ? Claim 2, line 1, cites "claim1" which should be "claim 1" (i.e. no space was left between the word "claim" and "1". Claim 3, line 4, cites "its output signal path" however the use of the pronoun "its" adds vagueness with respect to what exactly possesses the output signal path. Claim 3, line 5, cites "the selection input path" however the antecedent basis is "selection input signal path". Claim 15, lines 2-3, cite "the modulated functional signals" which lacks clear antecedent basis. Claim 16, lines 2-3, cite "the encoded functional signals" which lacks clear antecedent basis. Claim 20, lines 2-3, cite "a band associated with encoding of the functional signal" but a band of what exactly is being referred to here ? The examiner asks the applicant to better claim the limitations cited above. While the examiner understands the intentions of the applicant he feels confusion could be drawn from the limitations cited above. Appropriate correction is required.

Prosecution on the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hal D. Wachsman whose telephone number is 571-272-2225. The examiner can normally be reached on Monday to Friday 7:00 A.M. to 4:30 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marc Hoff can be reached on 571-272-2216. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Hal D Wachsmann  
Primary Examiner  
Art Unit 2857

HW  
October 18, 2005